

ABSTRACT OF THE DISCLOSURE

A method for laser beam machining, in particular laser beam welding of bodywork components (14), with the aid of a remote laser head (3). The laser head is guided by a robot (5) including a multi-axial robot hand (7). During the welding process, the emitted laser beam (12) is guided along the welding path (19) on the component (14) by orientation modifications and
5 with a variable irradiation angle β . said orientation modifications only being produced by pivoting displacements (7) of the manipulator hand (7) about at least one of its hand axes IV, V, VI.